

# IDEAL CASEMENTS

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# IDEAL CASEMENTS (READING) LTD

\*

HOT DIPPED GALVANISED

STANDARD METAL CASEMENTS AND DOORS

STANDARD INDUSTRIAL SASHES

AGRICULTURAL TYPE WINDOWS

REVERSIBLE WINDOWS FOR MULTI-STOREY  
BUILDINGS

PURPOSE MADE METAL WINDOWS FOR  
SCHOOLS, HOSPITALS and PUBLIC BUILDINGS

FABRICATORS OF PRESSED STEEL PRODUCTS

WOOD SURROUNDS FOR METAL WINDOWS

HOT DIP GALVANISING SPECIALISTS

DECEMBER, 1962



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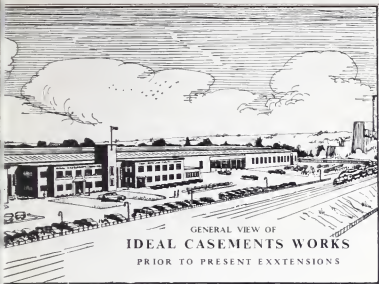
WORKS & OFFICES

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*also*

- IDEAL CASEMENTS (E.A.) LIMITED  
 NAIROBI, KENYA, EAST AFRICA.

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# IDEAL

## STANDARD WINDOWS

**Ideal Hot Dipped Galvanised Standard Metal Windows** are manufactured to British Standard Specification 990/1945 and are primarily intended for use in Domestic Buildings. The range of types available offers a wide choice to meet varying architectural designs.

All types of windows and doors can be coupled together by means of steel coupling members for each of which an additional  $\frac{1}{8}$ " must be added to the aggregate of sizes in both height and width to arrive at the overall dimensions.

Standard metal windows to both the 1' 8" and the 'Z' modules can be provided in three normal types of panes, i.e., no bar types giving large panes, horizontal bar types or small pane types.

Construction of windows and doors is from hot rolled mild steel sections, produced by Messrs. Darlington & Simpson Rolling Mills Ltd. and are to the dimensions and weights laid down in the above quoted British Standard.

Corners of frames are mitred and welded and glazing bars tenon rivetted into the frames. In certain types of windows the tenon rivetting of glazing bars is impracticable and in these instances the glazing bars are welded in.

*continued on page 9*





ROUPEL PARK ESTATE, WANDSWORTH  
Architect: Clifford Culpin, Esq., O.B.E., F.R.I.B.A., M.T.P.I.



# **FLATS PORTSWOOD ROAD SOUTHAMPTON**

**F. L. Wooldridge, Esq., M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Southampton**

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## IDEAL STANDARD WINDOWS *continued*

**Top Hung** casements are hung on steel hinges and fitted with bronze pegstays.

**Side Hung** casements, opening outwards, are hung on projected hinges and fitted with a bronze two point handle and bronze pegstay.

**Side Hung** casements, opening inwards, are hung on steel non-projecting hinges and are fitted with a bronze single point handle and supplied with a galvanised cabin hook. Sliding Stays can be fitted at an extra cost.

**Bottom Hung** ventilators for Larder windows are hung on steel hinges and fitted with a bronze spring catch and concealed side arm. These windows can be supplied with flyscreens.

Standard Metal Windows and Doors are supplied **Hot Dip Galvanised** and etched to permit immediate painting.





































If desired, we can supply windows in paint finish, utilising first quality red oxide paint.

The 'handing' of side hung casements and single leaf doors is taken viewed from the inside.

A recent addition to our range of Standard Windows is **Ideal Reversible windows** for use in multi-story buildings. The opening portion of this window is pivotted in such a manner as to permit it to be swung completely over to enable glass replacement, cleaning and general maintenance to be carried out from the inside of the building.

# IDEAL

## STANDARD LARGE PANE

11 1/2"	11"	1' 8"	1' 8"	1' 8"
				
NG6	NGT6	NG5	NG1	NGB1
1' 6"				
				
NH6	NH6F	NH5	NH1	NH5F
2' 0 1/2"				
				
NE6	NE6F	NE5	NE1 *	NE5F
3' 0 1/2"				
				
NC6	NC6F	NC5	NC1	NC5F
3' 6"				
				
NCO6	NCO6F	NCO5	NCO1	NCO5F
4' 0"				
				
ND6	ND6F	ND5	ND1	ND5F
4' 0"				
				
ND6/5	ND6F/5	ND5/5	ND1/5	ND5F/5
4' 11 1/4"				
				
NDV6	NDV6F	NDV5	NDV1/5	NDV5F

# IDEAL

## STANDARD LARGE PANE



\* Obtainable with side hung ventilators - e.g. NES1, NES2, Etc.

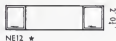
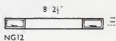
# IDEAL

## STANDARD LARGE PANE



# IDEAL

## STANDARD LARGE PANE



\* Obtainable with side hung ventilators - e.g. NES10, NES12, Etc

# IDEAL

## STANDARD HORIZONTAL BAR TYPES





# IDEAL

## STANDARD HORIZONTAL BAR TYPES



\* Obtainable with side hung ventilators e.g. HE51, HE52, Etc.



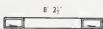








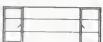


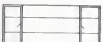





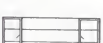



# IDEAL

## STANDARD HORIZONTAL BAR TYPE



# IDEAL

## STANDARD HORIZONTAL BAR TYPES

 <p>6' 6"</p> <p>NG11</p>	 <p>6' 6"</p> <p>NG11 FIXED</p>	 <p>8' 2 1/2"</p> <p>NG12</p>	11' 0"
 <p>NH11</p>	 <p>NH11 FIXED</p>	 <p>NH12</p>	1' 6"
 <p>HE11</p>	 <p>HES11</p>	 <p>HE12 *</p>	2' 0"
 <p>HC11</p>	 <p>HC11F</p>	 <p>HC12</p>	3' 0"
 <p>HCO11</p>	 <p>HCO11F</p>	 <p>HCO12</p>	3' 6"
 <p>HD11</p>	 <p>HD11F</p>	 <p>HD12</p>	4' 0"
 <p>HD11/5</p>	 <p>HD11F/5</p>	 <p>HD12/5</p>	4' 0"
 <p>HDV11/5</p>	 <p>HDV11F/5</p>	 <p>HDV12/5</p>	4' 11 1/2"

\* Obtainable with side hung ventilators - e.g. HES10, HES12, Etc

# IDEAL

## STANDARD SMALL PANE

11 1/2"  
G6



11  
GT6



1' 8"  
G5



1' 8"  
G1



1' 8"  
GB1



1' 6"  
H6



H6F



H5



H1



H5F



2' 0 1/2"  
E6



E6F



E5



E1



ESF



3' 0 1/2"  
C6



C6F



C5



C1



CSF



3' 6"  
CO6



CO6F



CO5



CO1



CO5F



4' 0"  
D6



D6F



D5



D1



DSF



4' 0"  
D6/5



D6F/5



D5/5



D1/5



DSF/5



4' 11 1/2"  
DV6



DV6F



DV5



DV1/5



DV5F



# IDEAL

## STANDARD SMALL PANE



G2



G7



G3



G4



H2



H7



H3



H4



E2 \*



E7 \*



E3



E4 \*



C2



C2F



C4



C4F



CO2



CO2F



CO4



CO4F



D2



D2F



D4



D4F



D2/S



D2F/S



D4/S



D4F/S



DV2/S



DV2F/S



DV4/S



DV4F/S

\* Obtainable with side hung ventilators - e.g. ES1, ES2, Etc.

# IDEAL

## STANDARD "Z" RANGE LARGE PANE



# IDEAL









































## STANDARD "Z" RANGE LARGE PANE

4' 0"	4' 0 1/2"	6' 0 1/2"	6' 0 1/2"	11' 1/2"
ZNG7/1	ZNG13	ZNG3	ZNG4	
				1 6
ZNH7/1	ZNH13	ZNH3	ZNH4	
				2' 0 1/2"
ZNE7/1	ZNE13	ZNE3	ZNE4 *	
				3' 0 1/2"
ZNC2F	ZNC13	ZNC4	ZNC4F	
				3' 6"
ZNCO2F	ZNCO13	ZNCO4	ZNCO4F	
				4' 0"
ZND2F	ZND13	ZND4	ZND4F	
				4' 0"
ZND2F/5	ZND13/5	ZND4/5	ZND4F/5	
				4' 11 1/2"
ZNDV2F/5	ZNDV13	ZNDV4/5	ZNDV4F/5	

\* Obtainable with side hung ventilators - e.g. ZNES1, ZNES2, Etc

# IDEAL

































## STANDARD "Z" RANGE HORIZONTAL BAR TYPES

2 0 $\frac{1}{2}$ "  ZNG5	2 0 $\frac{1}{2}$ "  ZNG1	2 0 $\frac{1}{2}$ "  ZNGB1	4 0 $\frac{1}{2}$ "  ZNG2	4 0 $\frac{1}{2}$ "  ZNG7
1 6"  ZNH5	 ZNH5F	 ZNH1	 ZNH2	 ZNH7
2 0 $\frac{1}{2}$ "  ZHE5	 ZNESF	 ZHE1 *	 ZHE2 *	 ZHE7 *
3' 0 $\frac{1}{2}$ "  ZHC5	 ZHC5F	 ZHC1	 ZHC2	 ZHC7
3' 6"  ZHC5	 ZHC5F	 ZHC1	 ZHC2	 ZHC7
4' 0"  ZHD5	 ZHD5F	 ZHD1	 ZHD2	 ZHD7
4' 0"  ZHD5/5	 ZHD5F/5	 ZHD1/5	 ZHD2/5	 ZHD7/5
4' 11 $\frac{1}{2}$ "  ZHDV5	 ZHDV5F	 ZHDV1/5	 ZHDV2/5	 ZHDV7/5



# IDEAL

## STANDARD "Z" RANGE HORIZONTAL BAR TYPES

4 0 $\frac{1}{2}$ "  ZNG7/1	4 0 $\frac{1}{2}$ "  ZNG13	6 0 $\frac{1}{2}$ "  ZNG3	6 0 $\frac{1}{2}$ "  ZNG4
 ZNH7/1	 ZNH13	 ZNH3	 ZNH4
 ZHE7/1	 ZHE13	 ZHE3	 ZHE4 *
 ZHC2F	 ZHC13	 ZHC4	 ZHC4F
 ZHCO2F	 ZHCO13	 ZHCO4	 ZHCO4F
 ZHD2F	 ZHD13	 ZHD4	 ZHD4F
 ZHD2F/S	 ZHD13/S	 ZHD4/S	 ZHD4F/S
 ZHDV2F/S	 ZHDV13	 ZHDV4/S	 ZHDV4F/S

\* Obtainable with side hung ventilators - e.g. ZHES1, ZHES2, Etc.

# IDEAL

## STANDARD DOORS, SIDELIGHTS & FANLIGHTS



# IDEAL

## STANDARD DOORS, SIDELIGHTS & FANLIGHTS



# IDEAL

## EXAMPLES OF COMPOSITE WINDOWS INTERNAL ELEVATIONS



NH1  
NC5



H2 R.H.  
NC2 L.H.



NH3  
NC4



H2 R.H. | H2 L.H.  
NC2 L.H. | NC2 R.H.



NH5  
ND1 L.H.



H8  
ND8



NH4  
ND4



HH7 | HH7  
HD7 | HD7



NE1  
ND1 L.H.



NE8  
ND8



NE4  
ND3



E2 R.H. | E2 R.H.  
D2 L.H. | D2 L.H.



# IDEAL

## EXAMPLES OF COMPOSITE WINDOWS INTERNAL ELEVATIONS

6' 3"



ZND1 L.H. | ZND13

PLATE MULLION FOR  
2 PLASTERED  
PARTITION SEE P.93

16' 3 $\frac{1}{4}$ "

ZND2F S L.H. | ZND13 | ZND13 | ZND2F/5 R.H.

4' 0"

6' 1 $\frac{1}{2}$ "ZNG1  
ZND1 L.H. | ZNDV13

ZNG13	ZNG7	ZNG7	ZNG13
ZND7	ZND13	ZND13	ZND7

4' 11 $\frac{1}{2}$ "

4' 4"



HA6 | HA15 | HA6

6' 7 $\frac{1}{2}$ "

A5 | A2 | A5

7' 0 $\frac{1}{16}$ "

ND2 L.H. | NA25

6' 9"

8' 2 $\frac{1}{2}$ "

ZNG1	ZNG13	ZNG1
ZNA5	ZNA25	ZNA5

12' 2 $\frac{1}{2}$ "

ZNG13	ZNG7	ZNG13
ZND2	ZNA25	ZND2
ZNF13		ZNF13

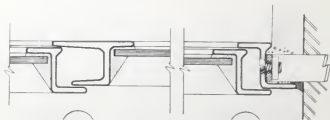
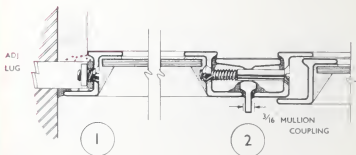
7' 0 $\frac{1}{8}$ "7' 8 $\frac{1}{2}$ "

# IDEAL

## STANDARD WINDOWS, SECTION DETAILS HALF FULL SIZE

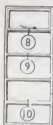


TYPICAL COMPOSITE WINDOW

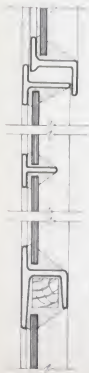


# IDEAL

## STANDARD WINDOWS, SECTION DETAILS HALF FULL SIZE



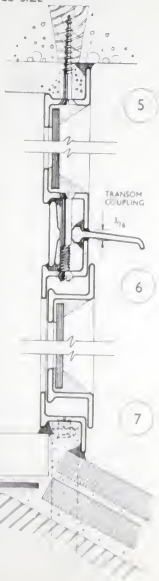
ZHDV58/5



8

9

10

SUB-LIGHT  
BAR

5

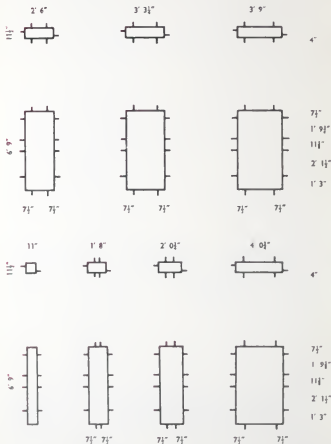
TRANSM  
COUPLING $\frac{3}{16}$ 

6

7

# IDEAL

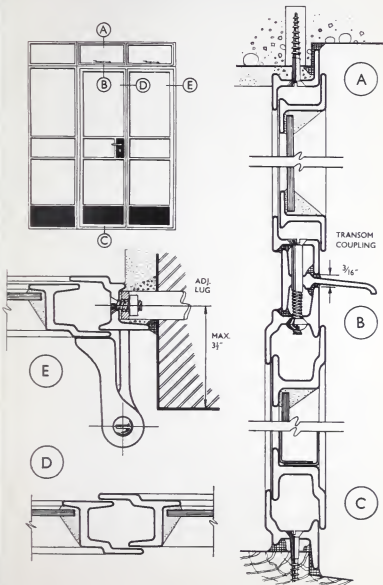
## STANDARD DOORS, SIDELIGHTS & FANLIGHTS FIXING HOLE LOCATIONS





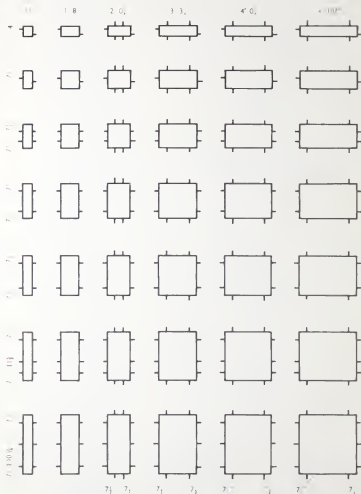
# IDEAL

## STANDARD DOORS, SIDELIGHTS & FANLIGHTS SECTION DETAILS, HALF FULL SIZE



# IDEAL

## STANDARD WINDOWS FIXING HOLE LOCATIONS





# IDEAL

## STANDARD AGRICULTURAL WINDOWS



AG1



AG2



AG4



AG5



AG6



AG7



AG8



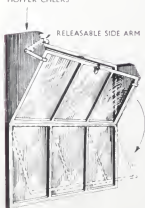
AG9



AG10

HOPPER CHEEKS

RELEASABLE SIDE ARM



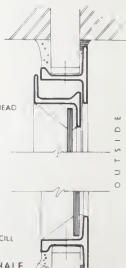
VENTILATOR CAN BE

HEAD

CILL

HALE

OUTSIDE



# IDEAL

## INWARD OPENING WINDOWS

SEE ALSO GB TYPES IN STANDARD RANGES

1' 8" 2' 0 1/2"	2' 0 1/2"	3' 3 1/4"	4' 0 1/2"
			
NLS1	ZNLS1	NLS7	ZNLS7
3' 0 1/2"			
			
NJ1	ZNJ1	NJ7	ZNJ7
4' 0"			
			
NK1	ZNK1	NK7	ZNK7

ALSO AVAILABLE WITH SMALL PANES — OMIT 'N'  
AND HORIZONTAL BARS — SUFFIX 'H' IN LIEU OF 'N'

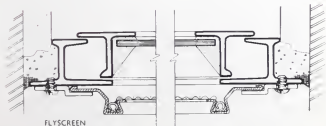
## LARGER WINDOWS

(BOTTOM HUNG)

1' 1"	1' 8"	2' 0 1/2"
		
NL6	NL1	ZNL1

ALL FITTED WITH DETACHABLE FLYSCREENS  
(IF REQUIRED)

AVAILABLE WITH GLAZING BARS AS ABOVE



HALF FULL SIZE

# IDEAL

## TUBULAR STEEL MULLIONS



HALF FULL SIZE



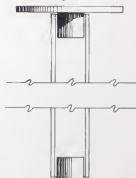
REF	DIA	CAPS & BASES
A	1 1/2"	4 1/2" DIA x 1/2" CAST IRON — LOOSE
B	1 3/4"	
C	2 1/2"	
D	1 1/2"	4" x 4" x 1/2" STEEL WELDED
E	1 3/4"	
F	2 1/2"	6" x 6" x 1/2" STEEL WELDED
G	2"	

SAFE LOADS IN TONS							
HEIGHT	A	B	C	D	E	F	G
UP TO 3 0	100	125	175	15	20	275	550
3 0" - 4 0"	075	117	150	125	175	25	475
4 0" - 5 0"	05	09	125	10	15	225	40
5 0" - 6 0"	02	06	10	075	10	20	325

CAPS & BASE

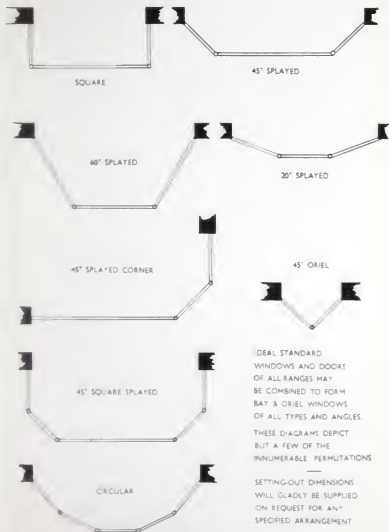
PLATES

1/2 F.S.



# IDEAL

## BAY AND ORIEL WINDOWS



IDEAL STANDARD  
WINDOWS AND DOORS  
OF ALL RANGES MAY  
BE COMBINED TO FORM  
BAY & ORIEL WINDOWS  
OF ALL TYPES AND ANGLES.  
THESE DIAGRAMS DEPICT  
BUT A FEW OF THE  
INNUMERABLE PERMUTATIONS

—  
SETTING-OUT DIMENSIONS  
WILL GLADLY BE SUPPLIED  
ON REQUEST FOR ANY  
SPECIFIED ARRANGEMENT

# IDEAL

## CURVED-ON-PLAN TYPE WINDOWS



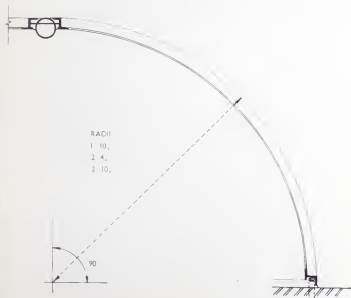


# IDEAL

## SEMI-CIRCULAR HEAD TYPE WINDOWS



## BULL'S EYE TYPE WINDOWS



DETAIL OF CURVED ON PLAN WINDOWS

# IDEAL

## SOLID UNIT CONSTRUCTION



ZNC16



ZNC17



ZNC19



ZNC20



ZND16



ZND17



ZND19



ZND20



ZNDV16



ZNDV17



ZNDV19



ZNDV20



ZNC21



ZND21



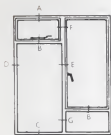
ZNDV21

THESE SIZES OF WINDOWS MEETS THE DEMAND FOR COMPOSITE TYPE WINDOWS BUT CONSTRUCTED AS A SINGLE UNIT ELIMINATING THE

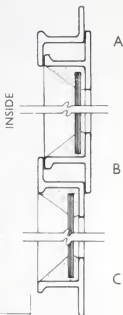
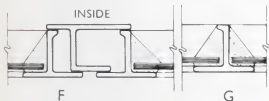
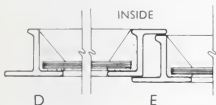
# IDEAL

## STANDARD WINDOWS FOR INSIDE GLAZING

DETAILS, HALF FULL SIZE



ZNDV2F S (I G)



STANDARD WINDOWS CAN BE SUPPLIED FOR GLAZING INTERNALLY, AS ILLUSTRATED, THEREBY FACILITATING MAINTENANCE ON MULTI-STOREY BUILDINGS.

# IDEAL

## REVERSIBLE WINDOWS FOR MULTI-STOREY BUILDINGS



NC13R



ZNC13R



NCO13R



ZNCO13R



ND13R



ZND13R



NE13R



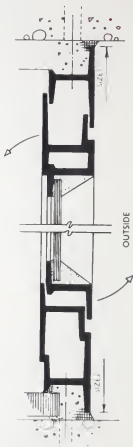
ZNE13R



NW13R



ZNW13R



VERTICAL SECTION

Fully reversible through 180°

Hot dip galvanised

## REVERSIBLE WINDOWS FOR MULTI-STOREY BUILDINGS



Normal opening (as illustrated) approx 25°  
Friction hinges retain firmly at any degree (0° - 180°)  
Releasable stay and turnbuckle at head.  
Two point handle at sill.  
Gravity catch for retention in reversed position.  
Ideal reversible windows can be coupled together.  
Or with other types of standard metal windows.  
Maintenance and glass replacements can be carried out  
from within the building.

# IDEAL

## STANDARD WOOD SURROUNDS

Ideal Standard Wood Surrounds are manufactured in accordance with British Standard Specification 1285/1955.

Construction is ex 3" x 2" softwood heads, jambs and cills with alternative cills ex 5" x 2½" or ex 6" x 3", as required.

Surrounds can also be manufactured to architects' details and specifications.

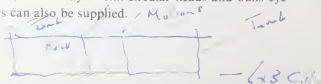
Cills can be supplied from hardwood, if so required, and all door thresholds are supplied in hardwood.

All members of the surrounds are double rebated to receive steel frames. Corners are morticed and tenoned and dowelled with special non-ferrous cruciform dowel pins. Frames are left with projecting horns at heads and cills eliminating the necessity for building-in lugs.

Tenons are treated with white lead paint prior to assembly and the frame finished in primer.

Wood frames can be made with wood mullions and transomes to take single steel units.

Bay window frames are available for circular, segmental, square, square splayed and angular Bays for 30°, 45°, or 60° Bays. Semi-circular heads and bulls-eye frames can also be supplied.



# IDEAL

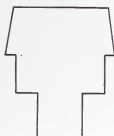
## STANDARD WOOD SURROUNDS

EX 3 x 2

HALF FULL SIZE PROFILES



JAMB



MULLION



HEAD



TRANSOM



CILL





**ST. JUDES FLATS—BRISTOL**

Architect: Albert H. Clarke, Esq., F.R.I.B.A., A.M.T.P.I.,  
City Architect, Bristol



**SHELL AND B.P. BUILDING, NAIROBI**

Architects: Messrs. Cobb, Archer & Scammel



# IDEAL

## STANDARD INDUSTRIAL SASHES

Ideal Standard Industrial Sashes are manufactured to British Standard Specification 1787 1951. These Sashes are designed for use in Industrial Buildings and can be supplied as small pane types or, alternatively, horizontal bar types to suit architectural requirements.

All Sashes can be coupled together both horizontally and vertically, each coupling increasing the overall height or width of a complete unit by  $\frac{1}{4}$ " above the aggregate unit sizes.

Industrial Sashes are constructed of  $1\frac{3}{8}$ " hot rolled mild steel sections with mitred and welded corners and tenon rivetted glazing bars.

Opening lights are manufactured complete with their frames as separate units which are bedded into mastic and screwed into the fixed sash frames.

Horizontal Centre Hung opening lights are hung on brass pivots and fitted with a bronze spring catch for hand operation.

Bottom Hung ventilators are hung on corner hinges and fitted with a bronze spring catch and concealed side arms.

Standard Industrial Sashes are protected by Hot Dip Galvanising process, but when specially ordered can be in red oxide paint finish.

Apart from Standard Industrial Sashes, we are able to supply Sashes to special dimensions and design.

# IDEAL

## STANDARD INDUSTRIAL SASH



SS821



SS83



SS84



SS851



SS22



SS32



SS42



SS52



SS23



SS33



SS43



SS53



SS24



SS34



SS44



SS54



SS25



SS35



SS45



SS55



SS26



SS36



SS46



SS56

# IDEAL

## STANDARD INDUSTRIAL SASH

2' 2½"



SSF21

3' 2½"



SSF31

4' 3½"



SSF41

5' 3½"



SSF51

1' 8"



SSF22



SSF32



SSF42



SSF52

3' 2½"



SSF23



SSF33



SSF43



SSF53

4' 8"



SSF24



SSF34



SSF44



SSF54

6' 3½"



SSF25



SSF35



SSF45



SSF55

7' 9"



SSF26



SSF36



SSF46



SSF56

9' 4"

# IDEAL

## STANDARD INDUSTRIAL SASH



HSSB21



HSSB31



HSSB41



HSSB51



HSS22



HSS32



HSS42



HSS52



HSS23



HSS33



HSS43



HSS53



HSS24



HSS34



HSS44



HSS54



HSS25



HSS35



HSS45



HSS55



HSS26



HSS36



HSS46



HSS56

# IDEAL

## STANDARD INDUSTRIAL SASH

2' 2 1/2"



HSSF21

3' 2 1/2"



HSSF31

4' 3 1/2"



HSSF41

5' 3 1/2"



HSSF51

1' 8 1/2"



HSSF22



HSSF32



HSSF42



HSSF52

3' 2 1/2"



HSSF23



HSSF33



HSSF43



HSSF53

4' 8 1/2"



HSSF24



HSSF34



HSSF44



HSSF54

6' 3 1/2"



HSSF25



HSSF35

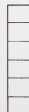


HSSF45

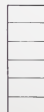


HSSF55

7' 9 1/2"



HSSF26



HSSF36



HSSF46



HSSF56

9' 4"

# IDEAL

## STANDARD INDUSTRIAL SASH



SH2



SH3



SH4



SH5



SSB22



SSB32



SSB42



SSB52



SSA25



SSA35



SSA45



SSA55



SSA26



SSA36



SSA46



SSA56

# IDEAL

## STANDARD INDUSTRIAL SASH

2' 2½"



HSH2

3' 2½"



HSH3

4' 3½"



HSH4

5' 3½"



HSH5

1' 8½"



HSSB22



HSSB32



HSSB42



HSSB52

3' 2½"



HSSA25



HSSA35



HSSA45



HSSA55

7' 9½"



HSSA26



HSSA36



HSSA46



HSSA56

9' 4"

# IDEAL

## STANDARD INDUSTRIAL SASH



SSE23



SSE33



SSE43



SSE53



SSE24



SSE34



SSE44



SSE54



SSE25



SSE35



SSE45



SSE55



SSE26



SSE36



SSE46



SSE56



# IDEAL

## STANDARD INDUSTRIAL SASH

2' 2½"



HSSE23

3' 2½"



HSSE33

4' 3½"



HSSE43

5' 3½"



HSSE53

4' 8½"



HSSE24



HSSE34



HSSE44



HSSE54

6' 3½"



HSSE25



HSSE35



HSSE45



HSSE55

7' 9½"



HSSE26



HSSE36



HSSE46

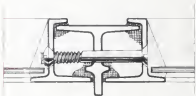
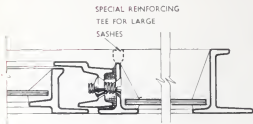


HSSE56

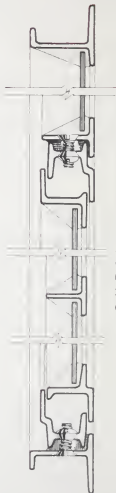
9' 4"

# IDEAL

## STANDARD INDUSTRIAL SASH SECTION DETAILS, HALF FULL SIZE



EXTRA STRENGTH MULLION  
FOR SASHES ABOVE 63' HIGH



# IDEAL

## STANDARD INDUSTRIAL SASH FIXING DETAILS, HALF FULL SIZE

1 8  $\frac{1}{2}$ " E  
+

2 2  $\frac{1}{2}$ "



A B A

3 2  $\frac{1}{2}$ "



A C A

4 3  $\frac{1}{2}$ "



A D A

5 3  $\frac{1}{2}$ "



A B C B A

3 2  $\frac{1}{2}$ " E  
+  
F  
+

4 8  $\frac{1}{2}$ " E  
+  
G  
+

6 3  $\frac{1}{2}$ " E  
+  
G  
+  
F  
+

7 9  $\frac{1}{2}$ " E  
+  
G  
+  
G  
+

8 4 E  
+  
+  
+  
+

A = 7  $\frac{1}{16}$ "

B = 12  $\frac{1}{2}$ "

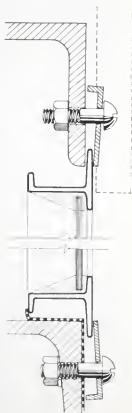
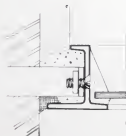
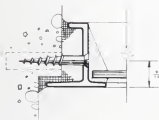
C = 2' 0  $\frac{1}{2}$ "

D = 3 1  $\frac{1}{8}$ "

E = 10  $\frac{1}{16}$ "

F = 1 6  $\frac{1}{4}$ "

G = 3' 0  $\frac{1}{2}$ "



# IDEAL

## STANDARD PROJECTED WINDOWS

2' 2½"



PW23T

2' 2½"



PW24T

2' 8½"



PW23ZT

2' 8½"



PW24ZT

6' 3½"



PW24T

6' 3½"



PW24TB

6' 3½"



PW24ZT

6' 3½"



PW24ZTB

7' 9½"



PW25T

7' 9½"



PW25TB

7' 9½"



PW25ZT

7' 9½"



PW25ZTB

9' 4"



PW26T

9' 4"



PW26TB

9' 4"



PW26ZT

9' 4"



PW26ZTB

# IDEAL

## STANDARD PROJECTED WINDOWS

3' 2 1/2"



PW33T

3' 2 1/2"



PW43T

4' 3 1/2"

4' 3 1/2"

6' 0"



PW34T



PW34TB



PW44T



PW44TB

6' 3 1/2"



PW35T



PW35TB



PW45T



PW45TB

7' 9 1/2"



PW36T



PW36TB



PW46T



PW46TB

8' 4"

## STANDARD PROJECTED WINDOWS FIXED LIGHTS



PW23F



PW23ZF



PW33F



PW43F



PW24F



PW24ZF



PW34F



PW44F



PW25F



PW25ZF



PW35F



PW45F



PW26F



PW26ZF



PW36F



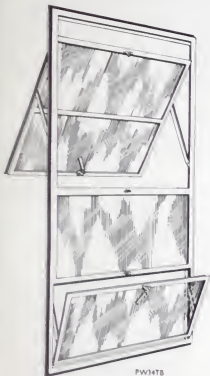
PW46F

**IDEAL**

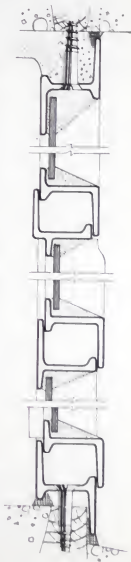
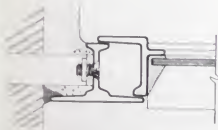
61

## STANDARD PROJECTED WINDOWS

DETAILS, HALF FULL SIZE



PW34TB



# IDEAL

## STANDARD SCHOOL TYPES



H — HOPPER  
BH — BOTTOM HUNG  
TH — TOP HUNG

SH — SIDE HUNG  
HP — HORIZONTAL PIVOT  
VP — VERTICAL PIVOT



# IDEAL

## STANDARD SCHOOL TYPES

'EA' TYPES ARE ALSO AVAILABLE WITH HORIZONTAL GLAZING BARS E.G. HEA1, HEA23 ETC.

IF HORIZONTAL AND VERTICAL GLAZING BARS ARE REQUIRED, OMIT PREFIX LETTER, E.G. EA1, EA23 ETC



NEA7



NEA8



NEA9



NEA13



NEA14



NEA15



NEA19



NEA20



NEA21



NEA25



NEA26



NEA27



NEA31



NEA32



NEA33



NEA37



NEA38



NEA39

STANDARD SCHOOL TYPES MAY BE COUPLED TO FORM ANY  
REQUIRED COMBINATION

FOR OVERALL SIZES OF COMPOSITES CONSULT WORKS

## PURPOSE MADE WINDOWS

Ideal Purpose Made windows, doors and screens are designed to meet the individual requirements of the architect and construction can be arranged in several alternative sections according to the fenestration required.

Glazing can be from inside or outside, putty glazed or beaded with steel, aluminium or wood bead.

Purpose Made windows can be supplied for hand or gear operation, and we would at all times be prepared to submit schemes based on the use of cable or shaft and lever gearing, hand or electrically operated.

The services of our Technical and Drawing Office staff are available at all times to provide assistance at the early design stage.

## HOT DIP GALVANISING

The normal finish for steel windows and doors is galvanising by the Hot Dip Process.

**The Galvanising Plant of Ideal Casements (Reading) Limited is one of the largest and most modern installations in the country, with a monthly capacity of 2,500 tons.**

In addition to galvanising our own output of windows we also process windows for thirty other manufacturers.

We also undertake General Galvanising, with particular emphasis on building components, and we welcome enquiries from Architects, Contractors and Local Authorities for carrying out their requirements in the field of Hot Dip Galvanising.



**ROYAL LONDON HOUSE, BOURNEMOUTH**  
Architect: H. Bramhill, Esq., Dipl. Arch. (Liverpool), F.R.I.B.A.



GOVERNMENT COMMUNICATIONS HEADQUARTERS,  
OAKLEY FARM, CHELTENHAM  
Chief Architect's Division, Ministry of Works, London



HARLOW PASSMORES SECONDARY SCHOOL  
Architects: Messrs. Yorke, Rosenberg & Mardall in collaboration with  
H. Conolly, Esq., C.B.E., F.R.I.B.A., Essex County Architect



**PIONEER HOUSE, NAIROBI**  
 Architect: Imre Rozsa, Esq., A.R.I.B.A., Dip. Eng. (Brno)



**BARTON HOUSE FLATS—BRISTOL**  
 Architect: Albert H. Clarke, Esq., F.R.I.B.A., A.M.P.T.I., City Architect,  
 Bristol

## PURPOSE-MADE WINDOWS TYPES AND SIZE LIMITS MEDIUM UNIVERSAL SECTIONS



SIDE HUNG OPEN OUT

MAXIMUM

HEIGHT — 6' 6"

WIDTH — 2' 6"



SIDE HUNG OPEN IN

MAXIMUM

HEIGHT — 6' 6"

WIDTH — 2' 6"

**NOTE** Types and size limits given here are for  
LARGE UNIVERSAL SECTIONS, size



TOP HUNG OPEN OUT

MAXIMUM

HEIGHT — 5' 0"

WIDTH — 5' 0"



BOTTOM HUNG OPEN IN

MAXIMUM

HEIGHT — 5' 0"

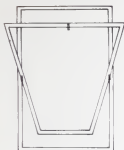
WIDTH — 5' 0"

# IDEAL

## PURPOSE-MADE WINDOWS

### TYPES AND SIZE LIMITS

#### MEDIUM UNIVERSAL SECTIONS



HORIZONTAL CENTRE HUNG

MAXIMUM

HEIGHT — 5' 0"

WIDTH — 5' 0"



VERTICAL PIVOT HUNG

MAXIMUM

HEIGHT — 6' 6"

WIDTH — 3' 9"

MEDIUM UNIVERSAL SECTIONS. By employing  
limits may be proportionately increased



PROJECTED TOP HUNG

MAXIMUM

HEIGHT — 4' 0"

WIDTH — 4' 0"



PROJECTED BOTTOM HUNG

MAXIMUM

HEIGHT — 4' 0"

WIDTH — 4' 0"

## PURPOSE-MADE WINDOWS

### TYPES AND SIZE LIMITS

#### MEDIUM UNIVERSAL SECTIONS



FOLDING SIDE HUNG

MAXIMUM

HEIGHT — 6' 6"

WIDTH — 4' 6"



FOLDING SIDE HUNG

FIXED MEETING RAIL

MAXIMUM

HEIGHT — 6' 6"

WIDTH — 5' 0"



FOLDING V C H

MAXIMUM

HEIGHT — 6' 0"

WIDTH — 6' 0"



FOLDING V C H

FIXED MEETING RAIL

MAXIMUM

HEIGHT — 6' 0"

WIDTH — 7' 6"

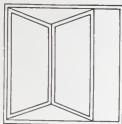


# IDEAL

## PURPOSE-MADE WINDOWS

### TYPES AND SIZE LIMITS

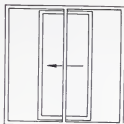
#### MEDIUM UNIVERSAL SECTIONS



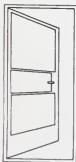
SLIDING — FOLDING

MAXIMUM

HEIGHT	— 8' 0"	} EACH LEAF
WIDTH	— 3' 0"	
O/A WIDTH	— 20' 0"	



HORIZONTAL SLIDING



DOOR

OPEN OUT OR IN

MAXIMUM

HEIGHT	— 7' 6"
WIDTH	— 2' 6"



FOLDING DOORS

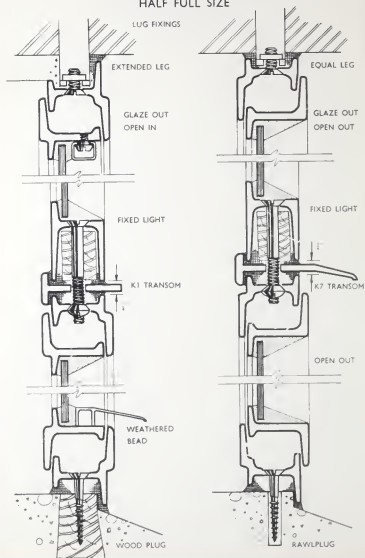
OPEN OUT OR IN

MAXIMUM

HEIGHT	— 7' 6"
WIDTH	— 5' 0"

# PURPOSE-MADE WINDOWS

## MEDIUM UNIVERSAL SECTIONS HALF FULL SIZE

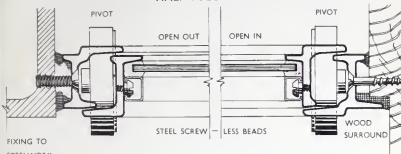


# IDEAL

## PURPOSE-MADE WINDOWS

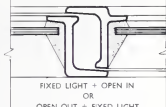
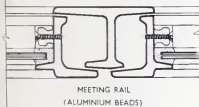
### MEDIUM UNIVERSAL SECTIONS

#### HALF FULL SIZE

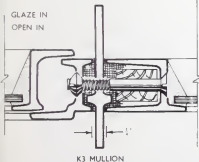


FIXING TO  
STEELWORK

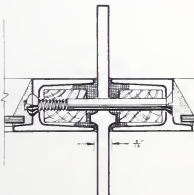
OPEN OUT



FIXED LIGHT + OPEN IN  
OR  
OPEN OUT + FIXED LIGHT  
OR  
MEETING STILES OF FOLDING

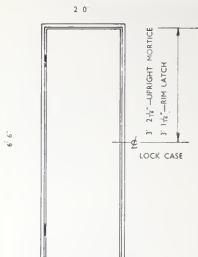


K3 MULLION



K4 MULLION

# STANDARD STEEL DOOR FRAMES



TYPE 24



TYPE 27



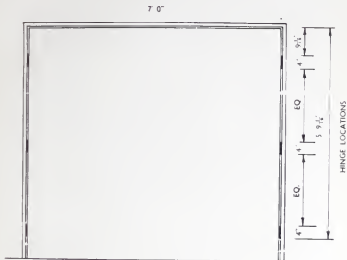
TYPE 30



TYPE 33

# IDEAL

## STANDARD STEEL DOOR FRAMES



TYPE 84

3' 10"

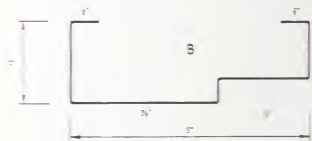


OVERALL  
DIMENSIONS REFER  
TO ACTUAL DOOR  
SIZES — THE TYPE  
NOTATION BEING THE  
WIDTH IN INCHES,  
WIDTHS INTO REBATES  
OF JAMBS ARE PLUS  
 $\frac{1}{8}$ " IN EACH CASE

TYPE 46

## STANDARD STEEL DOOR FRAMES

### PROFILES



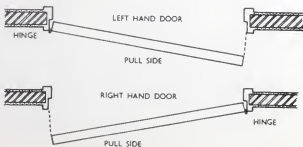
# IDEAL

## STANDARD STEEL DOOR FRAMES

WIDTH OF DOOR	PROFILE	EXTERNAL	INTERNAL
2' 0"	A	DEA24	DIA24
2' 3"	A	DEA27	DIA27
2' 6"	A	DEA30	DIA30
2' 9"	A	DEA33	DIA33
3' 10"	A	DEA46	DIA46
7' 0"	A	DEA84	DIA84
2' 0"	B	DEB24	DIB24
2' 3"	B	DEB27	DIB27
2' 6"	B	DEB30	DIB30
2' 9"	B	DEB33	DIB33
3' 10"	B	DEB46	DIB46
7' 0"	B	DEB84	DIB84
2' 0"	C	DEC24	DIC24
2' 3"	C	DEC27	DIC27
2' 6"	C	DEC30	DIC30
2' 9"	C	DEC33	DIC33
3' 10"	C	DEC46	DIC46
7' 0"	C	DEC84	DIC84

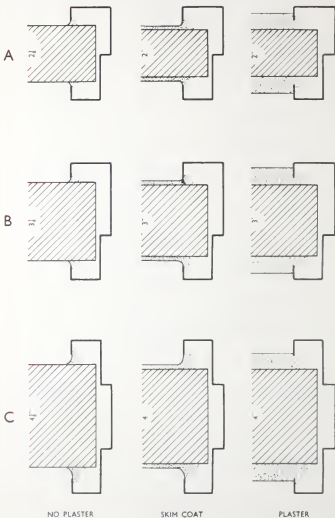
### INFORMATION REQUIRED WHEN ORDERING

- A REFERENCE NUMBER FROM TABLE ABOVE
- B FOR EXTERNAL DOORS, WHETHER OPEN IN OR OUT
- C HANDING — (SEE BELOW)
- D TYPE OF LOCK
- E TYPE OF DOOR, e.g. FLUSH OR PANELLED
- F FINISHED TOTAL THICKNESS OF FLOOR
- G GENERAL CONSTRUCTION OF FLOOR
- H FOR FOLDING DOORS — POSITION & DETAILS OF BOLTS

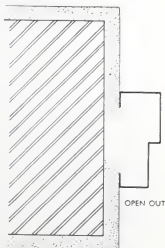
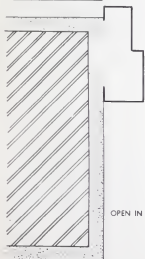


## STANDARD STEEL DOOR FRAMES

### APPLICATION OF FRAMES TO WALLS

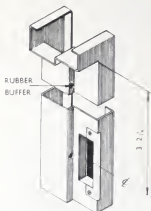




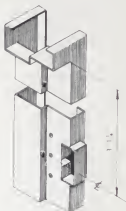
**IDEAL****STANDARD STEEL DOOR FRAMES****APPLICATION TO EXTERNAL WALLS**

# STANDARD STEEL DOOR FRAMES

## DETAILS



ADJUSTABLE STRIKE  
PLATE FOR MORTICE LOCK



ADJUSTABLE STRIKE  
PLATE FOR RIM LOCK



OPEN IN

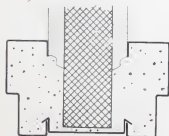
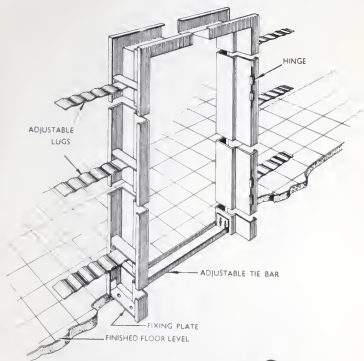


OPEN OUT

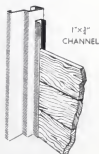
2 x 1 1/2 x 1/2 STEEL THRESHOLDS

## STANDARD STEEL DOOR FRAME

### DETAILS



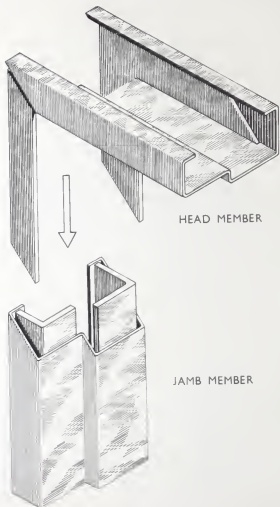
FILLER PLATE



COAL BOARD CHANNEL

# STANDARD STEEL DOOR FRAMES

SECTIONAL OR "KNOCK-DOWN" TYPE



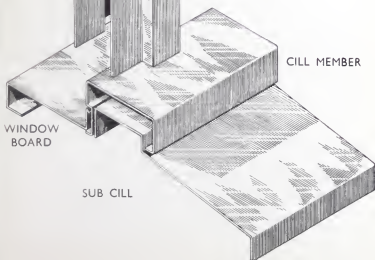
ALL OTHER DETAILS AS FOR WELDED TYPES

**IDEAL****STANDARD CAVITY SUB-FRAMES**

HEAD MEMBER



JAMB MEMBER



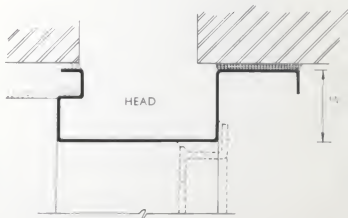
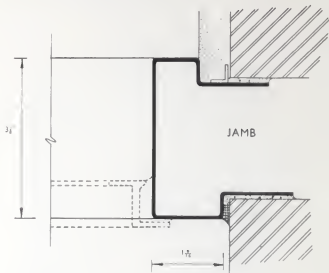
CILL MEMBER

WINDOW  
BOARD

SUB CILL

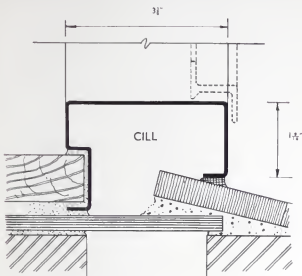
# STANDARD SUB-FRAMES FOR CAVITY WALLS

## DETAILS, HALF FULL SIZE

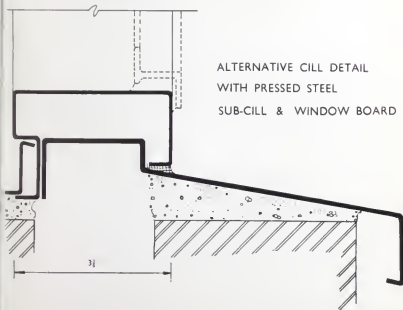


# IDEAL

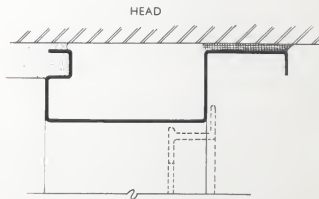
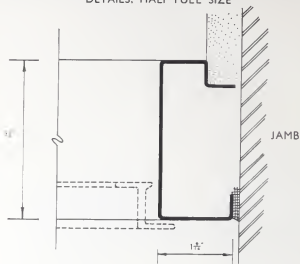
## STANDARD SUB-FRAMES FOR CAVITY WALLS



ALTERNATIVE CILL DETAIL  
WITH PRESSED STEEL  
SUB-CILL & WINDOW BOARD



STANDARD SUB-FRAMES FOR SOLID WALLS  
DETAILS, HALF FULL SIZE

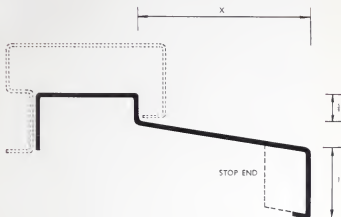


CILL PROFILES AS FOR "CAVITY" FRAMES



# IDEAL

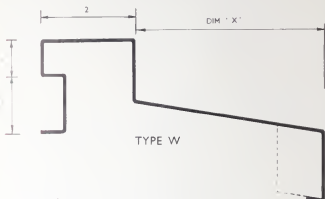
## SUB CILLS FOR SUB-FRAMES DETAILS, HALF FULL SIZE



FIXING	"X"	TYPE	POSITION
SOLID WALL	$3\frac{1}{8}"$	SA	Window set back $2\frac{1}{4}"$ from face of fair face brickwork.
SOLID WALL	$4\frac{1}{8}"$	SB	Window set back $2\frac{1}{4}"$ from brick face of rendered brickwork.
SOLID WALL	$5\frac{1}{8}"$	SC	Window set back $3\frac{1}{4}"$ from face of fair face brickwork.
SOLID WALL	$6\frac{1}{8}"$	SD	Window set back $3\frac{1}{4}"$ from brick face of rendered brickwork.
CAVITY WALL	$5\frac{1}{8}"$	SE	For use with fair face cavity wall.
CAVITY WALL	$6\frac{1}{8}"$	SF	For use with rendered cavity wall.

# IDEAL

## STANDARD STEEL WINDOW CILLS DETAILS, HALF FULL SIZE



TYPE W



TYPE AW

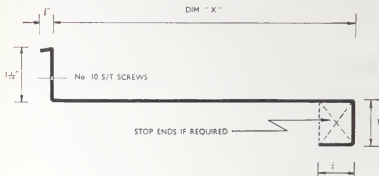
"X"	PREFIX "W" OR "AW"	POSITION
$2\frac{1}{2}"$	A	Window set back $2\frac{1}{2}"$ from face of fair face brickwork
$3\frac{1}{2}"$	B	Window set back $2\frac{1}{2}"$ from brick face of rendered brickwork
$4\frac{7}{8}"$	C	Window set back $3\frac{1}{2}"$ from face of fair face brickwork
$5\frac{7}{8}"$	D	Window set back $3\frac{1}{2}"$ from brick face of rendered brickwork

## STANDARD SUB-FRAMES—FIXING

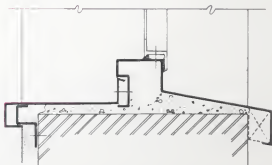


# IDEAL

## STANDARD STEEL WINDOW BOARDS



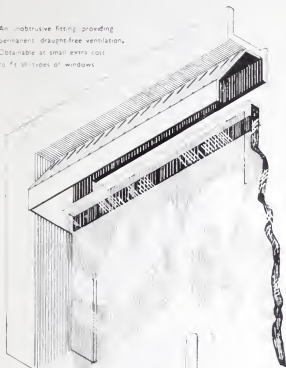
TYPE	B1	DIM. "X"	=	8 $\frac{7}{16}$ "
"	B2	" "	=	6 $\frac{11}{16}$ "
"	B3	" "	=	6 $\frac{7}{16}$ "
"	B4	" "	=	5 $\frac{7}{16}$ "
"	B5	" "	=	4 $\frac{11}{16}$ "
"	B6	" "	=	4 $\frac{7}{16}$ "
"	B7	" "	=	3 $\frac{7}{16}$ "



TYPICAL APPLICATION OF CILL & WINDOW BOARD

## PRESSED STEEL VENTILATING HOODS

An unobtrusive fitting providing permanent draught-free ventilation. Obtainable at small extra cost to fit all types of windows.



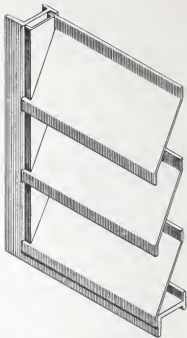
FULL SIZE  
DETAIL



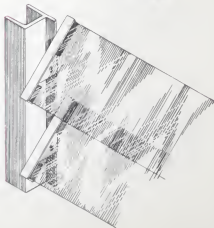
**IDEAL**

LOUVRES

PRESSED  
STEEL  
LOUVRES

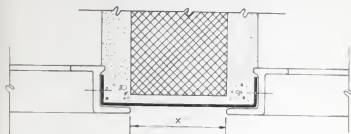


GLASS  
LOUVRES



# IDEAL

## PRESSED STEEL PLATE MULLIONS



AVAILABLE TO SUIT ALL THICKNESSES  
OF PARTITIONS

WHEN ORDERING PLEASE STATE EITHER

1. THICKNESS OF BLOCK AND WHETHER TO BE PLASTERED
- OR 2. OVERALL THICKNESS OF PARTITION
- OR 3. DIMENSION "X"

# IDEAL

## STANDARD PRESSED STEEL DOORS

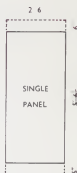
DIMENSIONS DOOR SIZES



PD1 (Open in)



PD2 (Open out)



PD3



PD4 (Open in)



PD5 (Open in)



PD6 (Open in)



## STANDARD PRESSED STEEL DOORS

DIMENSIONS — DOOR SIZES



PD7 (Open out)

PD13 AS ABOVE  
BUT 6' 8 1/2" h



PD8 (Open out)

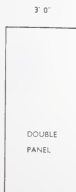
PD14 AS ABOVE  
BUT 6' 8 1/2" h.



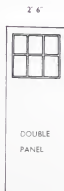
PD9



PD10



PD11



PD12

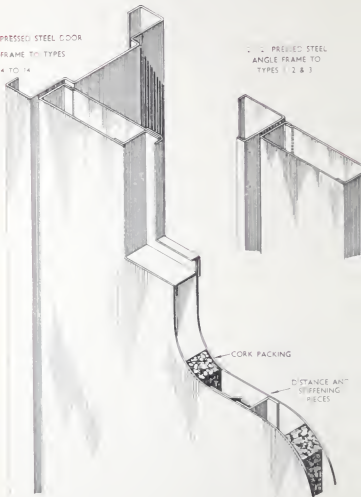
# IDEAL

## STANDARD PRESSED STEEL DOORS

PRESSED STEEL DOOR

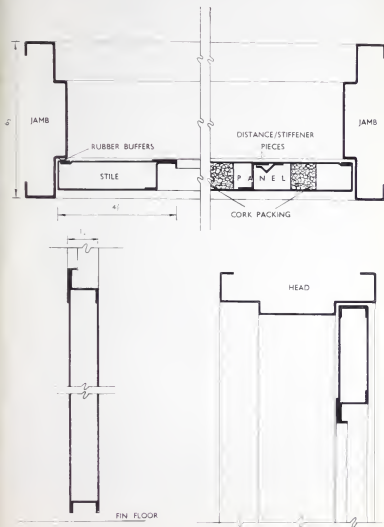
FRAME TO TYPES

4 TO 14



# IDEAL

## STANDARD PRESSED STEEL DOORS DETAILS





View through drying oven in Galvanising Plant

## PRESSED STEEL PRODUCTS

Ideal Standard Pressed Steel sub-frames are manufactured in accordance with British Standard Specification No. 1422/1956, and are supplied for use with solid wall construction or cavity walls.

The sub-frame itself serves as a template for the window opening and provides a rigid support for flat brick arches.

We recommend that frames over 3' 3½" in width should have additional reinforcement at the head. Frames are produced from 16G steel sheet, fully welded at all four corners with fixing holes to correspond with those in Standard Metal Windows.

All Sub-frames are prepared to receive sub-cills and windowboards.

Pressed Steel sub-cills for use in conjunction with sub-frames are readily available constructed from 14G steel sheet and in addition a full range of Pressed Steel Cills for use without sub-frames are offered.

Pressed Steel windowboards from 18G steel sheet are also available.

Ideal Standard Pressed Steel door frames are produced in accordance with British Standard Specification 1245, 1951.

Door frames are constructed from either 16G or 18G mild steel sheet and are suitable for doors up to 2" nominal thickness. It is essential that the thickness of the door be mentioned at the time of ordering.

Door frames are available in three profiles—A, B or C, as illustrated, and doors can be hung either right hand or left hand to open inwards or outwards.

Door frames supplied for use in the United Kingdom are welded and cleaned off at Works as a fully fabricated frame, prior to site delivery.

Door frames for Export are manufactured in a knocked-down construction for assembly on site without the use of screws or welding. In all cases base ties are supplied to ensure the correct positioning of the frames whilst building-in.

Internal door frames are supplied Paint finish. External frames are Hot Dip Galvanised before despatch.

In addition to the Standard components mentioned above we are able to offer sheet metal products to architects' special requirements and we invite enquiries.

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View of Machine Shop



Part of "Ideal" transport fleet





